

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**401 M Street, S.W.**  
**WASHINGTON, D.C. 20460**

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**DATA MATRIX**

<b>Date:</b> 08-18-2017	<b>EPA Reg. No. / File Symbol:</b> 60063-1	<b>Page 1 of 21</b>
<b>Applicant/Registrants's Name and Address:</b> Sipcam Agro USA Inc. 2525 Meridian Parkway, Suite 350, Durham, NC 27713	<b>Product:</b> Chlorothalonil Technical Fungicide	
<b>Ingredients:</b> Chlorothalonil 98%		
<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>
	<b>Submitter</b>	<b>Status</b>
		<b>Notes</b>

**Series 830 – Product Properties Test Guidelines**

**Group A—Product Identity, Composition, and Analysis Test Guidelines**

830.1550	Product Identity and Composition	41815701	Sipcam Agro USA, Inc.	OWN	
830.1600	Description of Materials Used to Produce the Product	41815701	Sipcam Agro USA, Inc.	OWN	
830.1620	Description of Production Process	41815701	Sipcam Agro USA, Inc.	OWN	
830.1670	Discussion of Impurities Formation	41815701	Sipcam Agro USA, Inc.	OWN	
830.1700	Preliminary Analysis, Caffaro Source	41855601	Sipcam Agro USA, Inc.	OWN	
830.1700	Preliminary Analysis, Alternate Source	44898701	Sipcam Agro USA, Inc.	OWN	
830.1750	Certification of Limits	44898701	Sipcam Agro USA, Inc.	OWN	
830.1800	Enforcement Analytical Method	41855601	Sipcam Agro USA, Inc.	OWN	

**Group B—Physical/Chemical Properties Test Guidelines**

830.6302	Color	41855602	Sipcam Agro USA, Inc.	OWN	
830.6303	Physical State	41855602	Sipcam Agro USA, Inc.	OWN	
830.6313	Stability; temperatures and light	41855602	Sipcam Agro USA, Inc.	OWN	
830.6313	Stability; temperatures and light	42186501	Sipcam Agro USA, Inc.	OWN	
830.6314	Oxidizing or Reducing Action	41855602	Sipcam Agro USA, Inc.	OWN	
830.6317	Storage Stability, 1 year	42186502	Sipcam Agro USA, Inc.	OWN	
830.6320	Corrosion characteristics	41855602	Sipcam Agro USA, Inc.	OWN	
830.7000	pH	41855602	Sipcam Agro USA, Inc.	OWN	
830.7200	Melting Point	41855602	Sipcam Agro USA, Inc.	OWN	
830.7300	Bulk Density	41855602	Sipcam Agro USA, Inc.	OWN	
830.7370	Dissociation Constant	41855602	Sipcam Agro USA, Inc.	OWN	
830.7550	Octanol/Water Partition Coefficient; Shake flask method	41855602	Sipcam Agro USA, Inc.	OWN	
830.7840	Water Solubility: Column elution method; shake flask	41855602	Sipcam Agro USA, Inc.	OWN	
830.7950	Vapor Pressure	41855602	Sipcam Agro USA, Inc.	OWN	

**Series 870 – Health Effects Test Guidelines**

**Group A—Acute Toxicity Test Guidelines**

870.1100	Acute oral toxicity - rat	43678401	Sipcam Agro USA, Inc.	OWN	
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**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
870.1200	Acute dermal toxicity	43678402	Sipcam Agro USA, Inc.	OWN	
870.1300	Acute inhalation toxicity - rat	43678403	Sipcam Agro USA, Inc.	OWN	
870.2400	Primary eye irritation - rabbit	43678404	Sipcam Agro USA, Inc.	OWN	
870.2500	Primary dermal irritation	43678405	Sipcam Agro USA, Inc.	OWN	
870.2600	Dermal sensitization	43678406	Sipcam Agro USA, Inc.	OWN	
870.2600	Dermal sensitization	40546001		OLD	
<b>4-Hydroxy-2,5,6,-trichloroisophthalonitrile studies</b>					
870.1100	Acute oral LD50 (rat)	00047938		OLD	
<b>Group B — Subchronic Toxicity Test Guidelines</b>					
870.3100	90-day subchronic toxicity (rat)	00127850		OLD	
870.3100	90-day subchronic (CD rat; repeat study)	00071535		OLD	
870.3100	13-week Subchronic (Sprague-Dawley rat) w/13-week	00127852		OLD	
870.3100	Subchronic toxicity, rat	00147943		OLD	
870.3100	Histopath. re-evaluation, renal tissue from above study	00147944		OLD	
870.3100	90-day oral dose staging study (male Fisher 344 rat)	40243702		OLD	
870.3100	90-day subchronic (CD-1 mouse)	00138148		OLD	
870.3100	Histopath. reevaluation renal tissue from above study	00147945		OLD	
870.3700	Teratogenicity (rat)	00129623, 00130733		OLD OLD	
870.3700	Teratogenicity (rabbit)	41250503		OLD	
870.3700	Teratogenicity; dose rangefinding; rabbit	41429101		OLD	
870.3700	Amendment to above	41679302		OLD	
870.3800	Reproduction 2-generation (Sprague-Dawley rat)	41706201		OLD	
<b>4-Hydroxy-2,5,6,-trichloroisophthalonitrile studies</b>					
870.3100	4-month dietary (Sprague-Dawley rat)	00047936		OLD	
870.3100	61-69 day dietary (Sprague-Dawley rat)	00127847		OLD	
870.3100	3-month subchronic; beagle dog	00047940		OLD	

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**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
870.3200	21-day Dermal (NZ white rabbit)	00158254		OLD	
870.3700	Teratogenicity (Dutch Belted rabbit)	00127855		OLD	
870.3800	Reproduction 3-generation (rat)	00127844, 00131200		OLD	
870.3800	Histopathology report from above study	00146938		OLD	
870.3800	Reproduction 1-generation (rat)	00127845		OLD	

**Group C—Chronic Toxicity Test Guidelines**

870.4100	2-year Chronic Feeding (dog)	00114034		OLD	
870.4100	1-year Chronic Dietary (dog)	44872201	Sipcam Agro USA, Inc.	OWN	
870.4100	Chronic (2-yr, rat)	00087376		OLD	
870.4100	Chronic (2-yr, rat; 0.5% TGA)	00087377		OLD	
870.4200	Oncogenicity (CD-1 mouse)	00127858		OLD	
870.4200	Histopath. reeval. renal tissue from above study	00162381		OLD	
870.4200	Histopath. reeval. stomach tissue from above study	40122905		OLD	
870.4200	Oncogenicity (CD-1 male mouse)	40243701		OLD	
870.4300	Chronic/Oncogenicity (Fischer 344 rat); 1985	00146945		OLD	
870.4300	Histopath. reeval. renal tissue from above study	00162380		OLD	
870.4300	Chronic/Oncogenicity (Fischer 344 rat); 1989	41250502		OLD	

**4-Hydroxy-2,5,6,-trichloroisophthalonitrile studies**

870.4100	Chronic (CD-1 mouse)	00127849		OLD	
870.4300	Chronic/oncogenicity (rat)	00137124		OLD	

**Group D— Genetic Toxicity Test Guidelines**

870.5100	Ames Salmonella/mammalian microsome; w/, w/out	00147949		OLD	
870.5265	Ames S. typhimurium	00147949		OLD	
870.5300	Chinese Hamster Ovary cell chromosome aberration	00162382		OLD	
870.5300	Amendment:	40559103		OLD	
870.5300	Mouse, rat, Chinese hamster chromosome aberration	00127854		OLD	
870.5300	Mouse, rat, Chinese hamster micronucleus	00127853		OLD	
870.5385	Bone marrow chromosomal aberration; mouse	00147946		OLD	
870.5385	Bone marrow chromosomal aberration; rat	00147947		OLD	

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**Ingredients:** Chlorothalonil 98%

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870.5385	Bone marrow chromosome aberration; Chinese	00147948		OLD	
<b>4-Hydroxy-2,5,6,-trichloroisophthalonitrile studies</b>					
870.5200	Mouse dominant lethal assay; 5-day exposure	00047941		OLD	
870.5200	Rat dominant lethal assay; acute & subchronic	00047942		OLD	
870.5265	Ames S. typhimurium	00030288		OLD	
870.5300	DNA repair S.Typhimurium	00030289		OLD	
870.5300	Chinese hamster point mutation	00030290		OLD	
870.5385	Mouse bone marrow cytogenetic assay	00044728		OLD	
870.5385	Chinese hamster bone marrow cytogenetic assay	44022202		OLD	
<b>Group E—Neurotoxicity Toxicity Test Guideline</b>					
870.6200	Acute neurotoxicity - rat	47970601	Syngenta	REL*	Waiver request
870.6200	Preliminary Acute Neurotox Study	49342715	See note 4	OWN	Member
870.6200	Acute Neurotox Study in rats for Chlorothalonil	49342714	See note 4	OWN	Member
<b>Group F—Special Studies Test Guideline</b>					
870.7485	Metabolic balance study, male mouse	00137125		OLD	
870.7485	General distribution 14C-CTL; male Sprague- Dawley	00147968		OLD	
870.7485	Acute effect; hepatic & renal GSH content; rat	00147969		OLD	
870.7485	Time course acute effect; hepatic & renal GSH	00147970		OLD	
870.7485	Isolation & identification, metabolites in bile; rat	00147967		OLD	
870.7485	Biliary excretion 14C-CTL; oral administration	00147963		OLD	
870.7485	Determination of 14C-CTL in rat blood (method)	00137126		OLD	
870.7485	Levels of 14C-CTL in rat blood	00137127		OLD	
870.7485	Distribution C14 in rat; excreta	00137128		OLD	
870.7485	Metabolite identification, rat urine	00137129		OLD	
870.7485	Recirculation of radioactivity in rat bile; intraduodenal	00137130		OLD	
870.7485	Biliary excretion, rat; intraduodenal administration	00137131		OLD	
870.7485	Dose-response excretion of radiolabel; intraduodenal	00137132		OLD	
870.7485	Comparative metabolism, in vitro technique	00137133		OLD	
870.7485	Oral distribution/metabolism, male rat	00147964		OLD	
870.7485	Oral distribution/metabolism, female rat	00147965		OLD	

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**Product:**  
Chlorothalonil Technical Fungicide

**Ingredients:** Chlorothalonil 98%

Guideline No.	Guideline Name	MRID Number	Submitter	Status	Notes
870.7485	Concentration in kidney; GSG conjugate (pilot study)	00162431		OLD	
870.7485	Effects of probenecid pretreatment on urinary	00156476		OLD	
870.7485	Metabolite ID (thiols) in urine & blood	00147966		OLD	
870.7485	Metabolite ID in urine & blood; multiple dose	00162383		OLD	
870.7485	Distribution C14 following multiple doses	00162384		OLD	
870.7485	Biliary excretion patterns; Sprague-Dawley rat	00162387		OLD	
870.7485	Subcellular fractionation kidney, male rat	40122912		OLD	
870.7485	In-vitro transfer mucosal to serosal surface, GI tract	40122913		OLD	
870.7485	In-vitro incubation, stomach & intestinal mucosal cells	40122911		OLD	
870.7485	Metabolic pathway, germ-free rat	41630804		OLD	
870.7485	Covalent binding to DNA, rat kidney tissue	40243703		OLD	
870.7485	Mitochondrial function +/- sulfur-containing analogs of CTL	40559105		OLD	
870.7485	Gamma-G.T. inhibitor effects on metabolism	41250506		OLD	
870.7485	Urinary excretion of 14C (dog) after gavage	41630805		OLD	
870.7485	Metabolic comparison, dog vs. rat	41250507		OLD	
N/A	Mechanistic interpretation of tumor formation	43653605		OLD	
870.7800	Immunotoxicity	48796201	See Note 1	OWN	See Note 2
870.7800	Immunotoxicity	48796201	See Note 4	OWN	Member
870.7800	90-Day inhalation toxicity	49184803	Syngenta Crop Protection	PAY	
		49184804	Syngenta Crop Protection	PAY	
		49184805	Syngenta Crop Protection	PAY	
		49184806	Syngenta Crop Protection	PAY	
		49184807	Syngenta Crop Protection	PAY	
		49184808	Syngenta Crop Protection	PAY	
		49184809	Syngenta Crop Protection	PAY	
		49184810	Syngenta Crop Protection	PAY	
		50333001	See Note 4	OWN	Member
		50333002	GB Biosciences	PAY	

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<b>4-Hydroxy-2,5,6,-trichloroisophthalonitrile studies</b>					
870.7600	Dermal Penetration; rat	00147962		OLD	
870.7600	Dermal Absorption & metabolism; rat	41250508		OLD	
870.7600	Urinary metabolites, male Rhesus monkey	41630803		OLD	
870.7600	Urinary metabolites; dermal dose; male Rhesus	42875901		OLD	
870.7600	Dermal Absorption; stain & paint; rat	43600103		OLD	
N/A	BALB/3T3 mouse fibroblasts	00030291		OLD	

**Series 875 – Occupational and Residential Exposure Test Guidelines**

**Group A—Applicator Exposure Monitoring Test Guidelines**

875.1200	Painter exposure; airless sprayer	43824501		OLD	
875.1200	Painter exposure; brush	43600102		OLD	
875.1200	Pilot study for painter exposure studies	43600101		OLD	
875.1200	Applicator Exposure, Greenhouse	40350501		OLD	
875.1200	Applicator Exposure, Greenhouse	43623202		OLD	
875.1200	Pilot study for above	43623201		OLD	
875.1100 and 875.1300	Mixer/Loader/Applicator/Mower; Golf Courses	42433810		OLD	

**Group B— Postapplication Exposure Monitoring Test Guidelines**

875.2100	Dislodgeable foliar residue - Greenhouse ornamentals	44493602		OLD	
875.2100	Dislodgeable foliar residue - Ornamentals	43938401		OLD	
875.2100	Dislodgeable foliar residue - Tomato	42875905		OLD	
875.2100	Dislodgeable foliar residue - Tomato	42875906		OLD	
875.2100	Dislodgeable foliar residue - Tomato	00147976		OLD	
875.2100	Dislodgeable foliar residue - Cherry	42875902		OLD	
875.2100	Dislodgeable foliar residue - Broccoli	42875903		OLD	
875.2100	Dislodgeable foliar residue - Broccoli	44868601	Sipcam Agro USA, Inc.	OWN	
875.2100	Dislodgeable foliar residue - Sweet corn	44868602	Sipcam Agro USA, Inc.	OWN	
875.2100	Dislodgeable foliar residue - Cucumber	42875904		OLD	
875.2100	Turf transferable residues - Turfgrass	44901001	Sipcam Agro USA, Inc.	OWN	
875.2400	Golfer Exposure	42433811		OLD	

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875.2400	Worker Re-entry; Greenhouse	N/A		PL	
875.2400	Worker Re-entry; Tomato harvesters	00147976		OLD	
875.2400	Worker Re-entry; Tomato harvesters	00147977		OLD	
875.2400	Field worker Margin of Exposure Cales	44119102		OLD	
875.2400	Tomato field worker MOE with, w/out gloves	44119103		OLD	

**Series 835 – Fate, Transport and Transformation Test Guidelines**

**Group A—Laboratory Transport Test Guidelines**

835.1110	Activated sludge Sorption Isotherm	49544400	Chlorothalonil Antimicrobial Testing Task Force	OWN	Member
835.1220	Adsorption to soil	00029406		OLD	
835.1220	Adsorption/desorption in soil	00115105		OLD	
835.1220	Adsorption/desorption in soil; addendum	00153731		OLD	
835.1220	Adsorption/desorption 3701	44483405		OLD	
835.1220	Adsorption/desorption 46851	44483404		OLD	
835.1230	Adsorption/desorption parent	49342706	See Note 4	OWN	Member
835.1230	Adsorption/ desorption metabolite 1: R613636 (SDS19221, M14)	49342705	See Note 4	OWN	Member
835.1230	Adsorption/ desorption metabolite 2: R419492 (M8)	49342704	See Note 4	OWN	Member
835.1230	Adsorption/ desorption metabolite 3: R471811 (M4)	49342703	See Note 4	OWN	Member
835.1240	Soil Column Leaching		See Note 4	OWN	Member
N/A	Soil leaching, CTL and metabolites	00087350		OLD	
N/A	Mobility in soil; CTL and metabolites	00137232		OLD	
N/A	Aged soil leaching	00143752		OLD	

**Group B—Laboratory Abiotic Transformation Test Guidelines**

835.2110	Hydrolysis	00040539		OLD	
835.2120	Hydrolysis	49342701	See Note 4	OWN	Member
835.2210	Photodegradation in water	00087281		OLD	
835.2210	Photodegradation in water	40183418		OLD	
835.2210	Additional information to validate above study	41030001		OLD	

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835.2240	Aqueous photolysis (buffer and natural water)	49342702	See Note 4	OWN	Member
835.2370	CTN: Air Photolysis (EPA Guideline 835.2370) - Placeholder (WAIVED for all members)		See Note 4	OWN	Member
N/A	Photodegradation on inert surfaces	00040541		OLD	
N/A	Photodegradation on silica gel plates	00040542		OLD	
N/A	Photodegradation on soil thin films	00040543		OLD	
N/A	Photodegradation, soil	00156470		OLD	

**Group C—Laboratory Biological Transformation Test Guidelines**

835.3100	Aquatic Environmental Fate Summary	42226102		OLD	
835.3100	Aerobic Aquatic (fresh & salt water)	42226101		OLD	
835.3300	Laboratory biodegradation study	00087285		OLD	
835.3300	Aerobic soil metabolism	00143753		OLD	
835.3300	Effect of microorganisms on soil half-life	00040547		OLD	
835.3300	Aerobic soil metabolism; Repeat; Ohio soil	43879601		OLD	
835.3400	Anaerobic Aquatic Soil	00147975		OLD	
N/A	Reaction kinetics of CTL with ruminant tissues	43832404		OLD	

**Group D— Transformation in Water and Soil Test Guidelines**

835.4100	Aerobic Soil Metabolism	49592601	See Note 3	OWN	Member
835.4100	Aerobic Soil Metabolism	49592602	See Note 4	OWN	Member
835.4200	Anaerobic Soil Metabolism	49592603	See Note 3	OWN	Member
835.4200 835.4400	Water sediment (Aerobic and anaerobic)	49592604	See Note 4	OWN	Member
835.4300	Anaerobic Soil degradation	49592603	See Note 4	OWN	Member
835.4300	Aerobic Aquatic Metabolism	49592604	See Note 3	OWN	Member
835.6100	Terrestrial field dissipation (3 locations)		See Note 4	OWN	Member
835.8100	Field Volatility study from soil	49992901	See Note 4	OWN	Member
	Avian Feeds; SDS-3701 residues summary	44299201		OLD	
	Tank mix soil dissipation w/ Ridomil	00071625		OLD	
	Tank mix soil dissipation	00071627		OLD	
	Terrestrial Dissipation; Donalsonville, GA	41564828		OLD	



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<b>Applicant/Registrants's Name and Address:</b> Sipcam Agro USA Inc. 2525 Meridian Parkway, Suite 350, Durham, NC 27713	<b>Product:</b> Chlorothalonil Technical Fungicide	

**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
	Terrestrial Dissipation, Fresno, CA	41564829		OLD	
	Terrestrial Dissipation; Greenfield, CA	41564830		OLD	
	Terrestrial Dissipation; Phelps, NY	42433813		OLD	
	Laboratory Rotational Crop Study	00029409		OLD	
	Confined Rotational Crops	00139550		OLD	
	Field Rotational Crops (cold)	00156477		OLD	
	Field Rotational Crops; 1-yr rotation summary	42090109		OLD	
	Field Rotational Crops; 1-yr rotation	41564831		OLD	
	Root & bulb crops; rotated after 1 yr treatment	41564832		OLD	
	Soil at planting & harvesting root & bulb crops	41564833		OLD	
	Grain crops; rotated after 1 yr treatment	41564843		OLD	
	Rotated Grain crops; straw & forage	41564844		OLD	
	Grain crops; amendment	41564845		OLD	
	Soil at planting & harvesting grain crops	41564846		OLD	
	Leafy crops; rotated after 1yr treatment	41564838		OLD	
	Soil at planting & harvesting leafy crops	41564839		OLD	
	Leafy crops; amendment	41564840		OLD	
	Oil crops, beans; rotated after 1 yr treatment	41564834		OLD	
	Peanut hay, Bean hay, Pea fodder	41564835		OLD	
	Soil at planting & harvesting oil crops, beans	41564836		OLD	
	Oil crops; amendment	41564837		OLD	
	Fruiting, cucurbits; rotated after 1yr treatment	41564841		OLD	
	Soil at planting & harvesting:	41564842		OLD	
	Fish Accumulation; CTL; flow-thru conditions	00086630		OLD	
	Accumulation, distribution, depuration; Bluegill	00086629		OLD	
	Accumulation, distribution, depuration; Catfish	00086631		OLD	
	Groundwater monitoring; final report	44483401		OLD	
	Field soil leaching (Perry, Ohio)	00087296		OLD	

**Series 850 – Ecological Effects Test Guidelines**

**Group A—Aquatic and Sediment-Dwelling Fauna, Aquatic Microcosm and Field Testing Test Guidelines**

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**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
850.1010	Acute Daphnia magna (CTL)	00068754		OLD	
850.1010	Acute Daphnia (720F)	42433806		OLD	
850.1025	Acute Eastern Oyster	00138143		OLD	
850.1045	Acute Penaeid shrimp	00127864		OLD	
850.1075	Acute Bluegill (96% CTL)	00041439		OLD	
850.1075	Acute Bluegill (99.7% CTL)	00029410		OLD	
850.1075	Acute Bluegill (98% CTL)	00127862		OLD	
850.1075	Acute Bluegill (720F)	42433804		OLD	
850.1075	Acute Bluegill (75% WP)	00087304		OLD	
850.1075	Acute Bluegill (75% WP)	00087258		OLD	
850.1075	Acute Rainbow Trout (96% CTL)	00056486		OLD	
850.1075	Acute Rainbow Trout (BRAVO 720F)	43302101		OLD	
850.1075	Acute Rainbow Trout (BRAVO 500F)	42433805		OLD	
850.1075	Acute Rainbow Trout (75% WP)	00087303		OLD	
850.1075	Acute Channel Catfish (96% CTL)	00030390		OLD	
850.1075	Acute Fathead Minnow (96% CTL)	00030391		OLD	
850.1075	Acute Marine Fish: Sheephead (CTL)	00127863		OLD	
850.1075	Fish acute toxicity test (marine-sheepshead minnow STR)	49342707	See Note 4	OWN	Member
850.1300	Daphnia magna Life Cycle (99.8% CTL)	00115107		OLD	
850.1350	Mysid shrimp life cycle	42433807		OLD	
850.1350	Aquatic nontarget organism: Mysid chronic toxicity	49524601	See Note 4	OWN	Member
850.1350	Invertebrate life cycle toxicity test (marine-mysid)	49524601	See Note 4	OWN	Member
850.1400	Fish early life stage toxicity test (marine-sheepshead minnow)	49342708	See Note 4	OWN	Member
850.1710	Oyster (Crassostrea virginica) Accumulation	43070601		OLD	
850.1735	Aquatic nontarget organism: Whole sediment: acute freshwater invertebrates	49524602	See Note 4	OWN	Member
850.1735	Whole Sediment: acute freshwater invertebrate (hyallela)	49342709	See Note 4	OWN	Member
850.1735	Whole Sediment: acute freshwater invertebrate	49524602	See Note 4	OWN	Member

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**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
	(chironomus)				
850.1740	Whole Sediment: acute marine invertebrate (leptocheirus)	49524603	See Note 4	OWN	Member
850.1740	Aquatic nontarget organism: Whole sediment: acute marine invertebrates uses)	49524603	See Note 4	OWN	Member
850.1950	Aquatic Field Monitoring	44286001		PL	
	Field Runoff; Soybean	00127862		OLD	

**Group B— Terrestrial Wildlife Test Guidelines**

850.2100	Avian acute oral toxicity test (passerine LD50)	49342710	See Note 4	OWN	Member
850.2100	Acute LD50 Mallard Duck (96% CTL)	00068753		OLD	
850.2100	Acute LD50 Japanese Quail (98.6% CTL)	40964105		OLD	
850.2100	Acute LD50 Mallard Duck (87% DS-3701)	00030395		OLD	
850.2200	Dietary LC50 Bobwhite Quail (96% CTL)	00030388		OLD	
850.2200	Dietary LC50 Mallard Duck (93.6% CTL)	00039146		OLD	
850.2200	Dietary LC50 Mallard Duck (96% CTL)	00030389		OLD	
850.2200	Dietary LC50 Bobwhite Quail (87% DS-3701)	00115109		OLD	
850.2200	Dietary LC50 Mallard Duck (87% 3701)	00115108		OLD	
850.2300	Avian reproduction Bobwhite Quail (99.6% CTL)	00041440		OLD	
850.2300	Avian reproduction Bobwhite Quail (98.3% CTL)	40964104		OLD	
850.2300	Avian Reproduction Mallard Duck (99.6% CTL)	00041441		OLD	
850.2300	Avian Reproduction Mallard Duck (98.3% CTL)	40964102		OLD	
850.2300	Avian reproduction; Mallard duck (3701)	40729402		OLD	
850.2300	Pilot for above study	40729401		OLD	
850.2300	Avian reproduction; Bobwhite Quail (3701)	40729404		OLD	
850.2300	Pilot for above study	40729403		OLD	
**SS-1075	Avian Acute inhalation	50095701	See Note 4	OWN	Member

**Group C— Terrestrial Beneficial Insects, Invertebrates, and Soil and Wastewater Microorganisms Test Guidelines**

850.3020	Acute Non-Target Insect (honeybee)	00036935		OLD	
850.3020	Acute Non-Target Insect (honeybee)	00077759		OLD	

**Group D— Terrestrial and Aquatic Plants, Cyanobacteria, and Terrestrial Soil Core Microcosm Test Guidelines**

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**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
850.4100	Terrest. Germ/Emerg Tier I	42433808		OLD	
850.4100	Terrestrial Plant Toxicity (seedling emergence Tier II)	49342711	See Note 4	OWN	Member
850.4150	Terrestrial Plant Toxicity (vegetative vigor Tier II)	49342712	See Note 4	OWN	Member
850.4150	Terrest. Veg. Vigor Tier I	42433809		OLD	
850.5400	Aquatic Growth (S.c.) Tier II (97.9% CTL)	42432801		OLD	

**Group E— Field Test Data Reporting Guidelines**

850.6100	Environmental Chemistry Methods, Associated ILV	49592605	See note 3	OWN	Member
850.6100	Environmental Chemistry Methods, Associated ILV	49592606	See note 3	OWN	Member
850.6100	Analytical Method in Soil	49659701	See Note 4	OWN	Member
850.6100	Validation of Analytical Method in Soil	49659702	See Note 4	OWN	Member
850.6100	Validation of Analytical Method in Soil	49659703	See Note 4	OWN	Member
850.6100	Analytical Method in Soil	49659704	See Note 4	OWN	Member
850.6100	Validation of Analytical Method in Water	49592605	See Note 4	OWN	Member
850.6100	Analytical Method in Water	49592606	See Note 4	OWN	Member

**Series 860 – Residue Chemistry Test Guidelines**

**860.1300 – Nature of the Residue**

	Apples; radiolabel distribution, foliage & fruit	00138147		OLD	
860.1300	Lettuce	00143750		OLD	
860.1300	Carrot	40183401		OLD	
860.1300	Tomato	40684801		OLD	
860.1300	Celery	42554002		OLD	
860.1300	Celery summary	42554001		OLD	
860.1300	Bean (snap)	42944401		OLD	
860.1300	Goat metabolism	41576001		OLD	
860.1300	Goat; SDS-3701 (4-OH metabolite)	41576002		OLD	
860.1300	Reaction kinetics of CTL w/ ruminant tissues	43832404		OLD	
N/A	Metabolism in lactating cows	00038919		OLD	
860.1300	Metabolism in Chicken	00127843		OLD	

**860.1340 –Residue Analytical Method**

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**Applicant/Registrants's Name and Address:**  
Sipcam Agro USA Inc.  
2525 Meridian Parkway, Suite 350, Durham, NC 27713

**Product:**  
Chlorothalonil Technical Fungicide

**Ingredients:** Chlorothalonil 98%

Guideline No.	Guideline Name	MRID Number	Submitter	Status	Notes
860.1340	Residue Methods: Peanut, Potato, Tomato	42875908		OLD	
860.1340	Independent lab validation	42875909		OLD	
860.1340	General Crop Methods; CTL, 3701, 46851, HCB, PCBN	41564819		OLD	
860.1340	Residue Methods: Meat, Milk; 4-OH metabolite	44071601		OLD	
860.1340	Residue Methods: Meat, Milk; 4-OH metabolite;	44419501		OLD	
860.1340	Residue Analytical Method - Stone Fruits	45855001	Sipcam Agro USA, Inc.	OWN	
860.1340	Residue Analytical Method - Cucurbits	45855002	Sipcam Agro USA, Inc.	OWN	
860.1340	Residue Analytical Method - Cereal Grains (Sweet	45855003	Sipcam Agro USA, Inc.	OWN	
860.1340	Residue Analytical Method - Bulb Vegetables	45855004	Sipcam Agro USA, Inc.	OWN	
860.1340	Residue Analytical Method - Brassica Leafy Vegetables	45855005	Sipcam Agro USA, Inc.	OWN	
860.1340	Residue Analytical Method - Carrots	45942701		OLD	
860.1360	Multiresidue method of degradate SDS 3701	49342713	See Note 4	OWN	Member
<b>860.1380 –Storage Stability</b>					
860.1380	Soil	42433814		OLD	
860.1380	Water	44483403		OLD	
860.1380	Worker exposure devices	43623204		OLD	
860.1380	Celery (6 years)	44240503		OLD	
860.1380	Tomato-	42875917		OLD	
860.1380	Cucumbers	42875910		OLD	
860.1380	W heat grain (6 years)	44240510		OLD	
860.1380	Peanuts (6 years)	44240506		OLD	
860.1380	Soybeans (6 years)	44240508		OLD	
860.1380	Almonds; nutmeats & hulls (6 years)	44240501		OLD	
860.1380	Cherries (6 years)	44240505		OLD	
860.1380	Carrots (6 years)	44240502		OLD	
860.1380	Potatoes (6 years)	44240507		OLD	
860.1380	Meat, Milk; Freezer storage stability; non-GLP	43832402		OLD	
860.1380	Meat, Milk; Freezer storage stability; GLP	43832401		OLD	

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Ingredients: Chlorothalonil 98%					
Guideline No.	Guideline Name	MRID Number	Submitter	Status	Notes

**860.1480 – Meat/Milk/Poultry/Eggs**

860.1480	Cow: Meat, Milk (fed CTL + SDS-3701)	00087251		OLD	
860.1480	Cow: Meat, Milk (fed CTL only)	00087252		OLD	
860.1480	Cow: Meat, Milk (fed SDS-3701 only)	00087253		OLD	
860.1480	Cow: Meat, Milk	43832403		OLD	
N/A	Reduction of residues	00038928		OLD	

**860.1500 –Crop Field Trials**

860.1500	Almonds & hulls	00071190		OLD	
860.1500	Almonds & hulls	00127866		OLD	
860.1500	Almonds & hulls	00078929		OLD	
860.1500	Apples	00097503		OLD	
860.1500	Apples	00138146		OLD	
860.1500	Apples, processing	00138145		OLD	
860.1500	Apples, Tomatoes and Strawberries: PS-7509	00097505		OLD	
860.1500	Apricot	00098113		OLD	
860.1500	Apricot	00086627		OLD	
860.1500	Asparagus	42073901		OLD	
860.1500	Asparagus	42839801		OLD	
860.1500	Asparagus	42839802		OLD	
860.1500	Asparagus	42840001		OLD	
860.1500	Asparagus	42840002		OLD	
860.1500	Bananas	00087275		OLD	
860.1500	Bananas	00147973		OLD	
860.1500	Bananas	40000114		OLD	
860.1500	Bananas	42875919		OLD	
860.1500	Bananas	43251601		OLD	
860.1500	Blueberry	41614901		OLD	
860.1500	Broccoli	40000105		OLD	
860.1500	Broccoli	40183408		OLD	
860.1500	Broccoli	40183409		OLD	

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**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
860.1500	Broccoli	42875923		OLD	
860.1500	Brussels Sprouts	00087324		OLD	
860.1500	Brussels Sprouts	00114035		OLD	
860.1500	Brussels Sprouts	40183410		OLD	
860.1500	Brussels Sprouts	42875924		OLD	
860.1500	Brussels Sprouts	42875924		OLD	
860.1500	Cabbage	40183411		OLD	
860.1500	Cabbage	42875920		OLD	
860.1500	Cabbage	42875921		OLD	
860.1500	Cabbage	42875922		OLD	
860.1500	Cabbage	00158892		OLD	
860.1500	Cacao	00109661		OLD	
860.1500	Carrot	40183402		OLD	
860.1500	Carrot	40000101		OLD	
860.1500	Carrot	00084828		OLD	
860.1500	Carrot	00156523		OLD	
860.1500	Carrot; processing	41819401		OLD	
860.1500	Cauliflower	40000106		OLD	
860.1500	Cauliflower	40000106		OLD	
860.1500	Cauliflower	42875922		OLD	
860.1500	Celery	40183407		OLD	
860.1500	Celery	40000104		OLD	
860.1500	Celery	00084829		OLD	
860.1500	Celery	00087255		OLD	
860.1500	Celery	00147973		OLD	
860.1500	Celery	00161154		OLD	
860.1500	Celery	00158893		OLD	
860.1500	Cherry, sweet	00098113		OLD	
860.1500	Cherry, tart	00098113		OLD	
860.1500	Cherry, tart	00143113		OLD	
860.1500	Cherry, tart; canning study	00145400		OLD	

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**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
860.1500	Cherry, tart; mechanical harvest, short PHI	40684802		OLD	
860.1500	Coffee	00109661		OLD	
860.1500	Corn grain & fodder	42944402		OLD	
860.1500	Corn grain; processing	42944403		OLD	
860.1500	Corn, sweet	00087329		OLD	
860.1500	Corn, sweet	40000113		OLD	
860.1500	Corn, sweet	44191001		OLD	
860.1500	Cranberry	00130005		OLD	
860.1500	Cranberry	00153530		OLD	
860.1500	Cucumber	00084830		OLD	
860.1500	Cucumber	00129178		OLD	
860.1500	Cucumber	00156523		OLD	
860.1500	Cucumber	40183414		OLD	
860.1500	Cucumber	40183415		OLD	
860.1500	Cucumber (belly rot use pattern)	00084833		OLD	
860.1500	Cucumbers; pickle processing	41630802		OLD	
860.1500	Dry beans	00087338		OLD	
860.1500	Dry beans	00126732		OLD	
860.1500	Dry beans	00156523		OLD	
860.1500	Dry beans	41844101		OLD	
860.1500	Filberts	42272901		OLD	
860.1500	Ginseng	47248506		OLD	
860.1500	Glasshouse vegetables	00087273		OLD	
860.1500	Grapefruit	00053001		OLD	
860.1500	Grapefruit	00053001		OLD	
860.1500	Grapefruit	00115103		OLD	
860.1500	Grass seed, screenings, straw	42875926		OLD	
860.1500	Horseradish	47248504		OLD	
860.1500	Japanese & Prune Plum	00098113		OLD	
860.1500	Japanese Plum	00086627		OLD	
860.1500	Leafy vegetables	00161165		OLD	



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<b>Date:</b> 08-18-2017	<b>EPA Reg. No. / File Symbol:</b> 60063-1	<b>Page 17 of 21</b>
<b>Applicant/Registrants's Name and Address:</b> Sipcam Agro USA Inc. 2525 Meridian Parkway, Suite 350, Durham, NC 27713	<b>Product:</b> Chlorothalonil Technical Fungicide	

**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
860.1500	Lima bean vines	41403201		OLD	
860.1500	Lime; processing	00053001		OLD	
860.1500	Mango	41988201		OLD	
860.1500	Mango	43920701		OLD	
860.1500	Mango	43920702		OLD	
860.1500	Melons	00087325		OLD	
860.1500	Melons	00114035		OLD	
860.1500	Melons	00147973		OLD	
860.1500	Melons, Squash (Summer)	00129178		OLD	
860.1500	Mint hay, oil	00071753		OLD	
860.1500	Mint hay, oil	00071754		OLD	
860.1500	Mushrooms	00159588		OLD	
860.1500	Mushrooms	00159589		OLD	
860.1500	Mushrooms	42245502		OLD	
860.1500	Nectarine	00098113		OLD	
860.1500	Nectarine	00086628		OLD	
860.1500	Onion (dry bulb)	42875922		OLD	
860.1500	Onion {dry bulb}	40000103		OLD	
860.1500	Onion (dry bulb)	40183405		OLD	
860.1500	Onion (green)	00087346		OLD	
860.1500	Onion (green)	40183406		OLD	
860.1500	Orange {Temple}	00053001		OLD	
860.1500	Orange (Valencia)	00053001		OLD	
860.1500	Orange (Valencia)	00053001		OLD	
860.1500	Orange (Valencia)	00084634		OLD	
860.1500	Orange; processing	00052999		OLD	
860.1500	Papaya	00087368		OLD	
860.1500	Passion fruit	00039239		OLD	
860.1500	Passion fruit	42059001		OLD	
860.1500	Peach	00040470		OLD	
860.1500	Japanese Plum	00086627		OLD	

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<b>Applicant/Registrants's Name and Address:</b> Sipcam Agro USA Inc. 2525 Meridian Parkway, Suite 350, Durham, NC 27713	<b>Product:</b> Chlorothalonil Technical Fungicide	

**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
860.1500	Leafy vegetables	00161165		OLD	
860.1500	Lima bean vines	41403201		OLD	
860.1500	Lime; processing	00053001		OLD	
860.1500	Mango	41988201		OLD	
860.1500	Mango	43920701		OLD	
860.1500	Mango	43920702		OLD	
860.1500	Melons	00087325		OLD	
860.1500	Melons	00114035		OLD	
860.1500	Melons	00147973		OLD	
860.1500	Melons, Squash (Summer)	00129178		OLD	
860.1500	Mint hay, oil	00071753		OLD	
860.1500	Mint hay, oil	00071754		OLD	
860.1500	Mushrooms	00159588		OLD	
860.1500	Mushrooms	00159589		OLD	
860.1500	Mushrooms	42245502		OLD	
860.1500	Nectarine	00098113		OLD	
860.1500	Nectarine	00086628		OLD	
860.1500	Onion (dry bulb)	42875922		OLD	
860.1500	Onion {dry bulb}	40000103		OLD	
860.1500	Onion (dry bulb)	40183405		OLD	
860.1500	Onion (green)	00087346		OLD	
860.1500	Onion (green)	40183406		OLD	
860.1500	Orange {Temple}	00053001		OLD	
860.1500	Orange (Valencia)	00053001		OLD	
860.1500	Orange (Valencia)	00053001		OLD	
860.1500	Orange (Valencia)	00084634		OLD	
860.1500	Orange; processing	00052999		OLD	
860.1500	Papaya	00087368		OLD	
860.1500	Passion fruit	00039239		OLD	
860.1500	Passion fruit	42059001		OLD	
860.1500	Peach	00040470		OLD	

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<b>Applicant/Registrants's Name and Address:</b> Sipcam Agro USA Inc. 2525 Meridian Parkway, Suite 350, Durham, NC 27713	<b>Product:</b> Chlorothalonil Technical Fungicide	

**Ingredients:** Chlorothalonil 98%

<b>Guideline No.</b>	<b>Guideline Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Notes</b>
860.1500	Peach	00086628		OLD	
860.1500	Peach	00086628		OLD	
860.1500	Peach	00098113		OLD	
860.1500	Peach	00120273		OLD	
860.1500	Peach	00124127		OLD	
860.1500	Peach; canning process	00124128		OLD	
860.1500	Peanut	00087327		OLD	
860.1500	Peanut	00092412		OLD	
860.1500	Peanut (sprinkler irrigation)	00084831		OLD	
860.1500	Peanut hay	43843601		OLD	
860.1500	Peanuts & hulls	40000116		OLD	
860.1500	Peanuts & hulls	40183416		OLD	
860.1500	Peanuts & hulls	42875925		OLD	
860.1500	Peanuts; processing	40183417		OLD	
860.1500	Pecans	00164474		OLD	
860.1500	Pecans	00164475		OLD	
860.1500	Peppers (bell)	47248501	IR-4	PUB	Public Domain
860.1500	Peppers (non-bell)	47248502	IR-4	PUB	Public Domain
860.1500	Persimmon	47248503	IR-4	PUB	Public Domain
860.1500	Pistachios	43924101		OLD	
860.1500	Plum/prune; processing	42875927		OLD	
860.1500	Potatoes	00071616		OLD	
860.1500	Potatoes	00087314		OLD	
860.1500	Potatoes	00087323		OLD	
860.1500	Potatoes	00104656		OLD	
860.1500	Potatoes	00147973		OLD	
860.1500	Potatoes	00097847		OLD	
860.1500	Potatoes	00156523		OLD	
860.1500	Potatoes	40183403		OLD	
860.1500	Potatoes	40000102		OLD	
860.1500	Prune Plum	00098113		OLD	

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**Date:**08-18-2017 **EPA Reg. No. / File Symbol:** 60063-1 **Page 20 of 21**

**Applicant/Registrants's Name and Address:**  
Sipcam Agro USA Inc.  
2525 Meridian Parkway, Suite 350, Durham, NC 27713

**Product:**  
Chlorothalonil Technical Fungicide

**Ingredients:** Chlorothalonil 98%

Guideline No.	Guideline Name	MRID Number	Submitter	Status	Notes
860.1500	Rhubarb	47248505	IR-4	PUB	Public Domain
860.1500	Snap beans	00087329		OLD	
860.1500	Snap beans	00147973		OLD	
860.1500	Snap beans	40000107		OLD	
860.1500	Snap beans	40183412		OLD	
860.1500	Soybeans	00029905		OLD	
860.1500	Soybeans; processing	40183413		OLD	
860.1500	Squash, summer	40000111		OLD	
860.1500	Squash, winter	40000112		OLD	
860.1500	Squash, winter & summer	00087325		OLD	
860.1500	Squash, winter; baby food processing	41630801		OLD	
860.1500	Sugar Beet, RAC	50273301	Sipcam Agro USA, Inc.	OWN	
860.1500	Tomato	00087326		OLD	
860.1500	Tomato	00084832		OLD	
860.1500	Tomato	00141398		OLD	
860.1500	Tomato	40000108		OLD	
860.1500	Tomato	40000109		OLD	
860.1500	Tomato	00162391		OLD	
860.1500	Tomato; processing, lye peeled	00129178		OLD	
860.1500	Tomato; processing, peels left on	00129178		OLD	
860.1500	Wheat straw	00127866		OLD	
860.1500	Wheat; processing	00127866		OLD	
860.1500	Watermelon	40000110		OLD	
860.1500	Wheat grain	00127866		OLD	
860.1500	Wheat grain	00127866		OLD	
<b>860.1520 –Processed Food/Feed</b>					
830.1520	Sugar Beet, Processed	50273301	Sipcam Agro USA, Inc.	OWN	
860.1520	Snap beans; effects of washing, cooking	N/A		PL	
860.1520	Snap beans; canning	00129178		OLD	
860.1520	Potatoes; processing (1984 Reg.Std.)	40183404		OLD	

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Applicant/Registrants's Name and Addresss: Sipcam Agro USA Inc. 2525 Meridian Parkway, Suite 350, Durham, NC 27713			Product: Chlorothalonil Technical Fungicide			
Ingredients: Chlorothalonil 98%						
Guideline No.	Guideline Name	MRID Number	Submitter	Status	Notes	


860.1520	Potatoes; processing (1991 DCI)	42800501	GB Biosciences	OLD	
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**Series 890 – Endocrine Disruptor Screening Program Test Guidelines**

**Group A— EDSP Tier 1 Test Guidelines**

n/a	Dose-Range Finding Oral (Gavage) Toxicity Study (Young Adult Rats)	48669901	See Note 1	OWN	Member
n/a	14-Day Dose Range Finding Oral (Gavage) Toxicity Study(Juvenile Rats)	48699303	See Note 1	OWN	Member
890.1100	Amphibian Metamorphosis (Frog)	49002801, 49226001	See Note 1	OWN OWN	Member
890.1150	Androgen Receptor Binding (Rat Prostate)	48676301	See Note 1	OWN	Member
890.1200	Aromatase (Human Recombinant)	48615403	See Note 1	OWN	Member
890.1250	Estrogen Receptor Binding	48615401	See Note 1	OWN	Member
890.1300	Estrogen Receptor Transcriptional Activation	48615402	See Note 1	OWN	Member
890.1350	Fish Short-Term Reproduction	48950801	See Note 1	OWN	Member
890.1400	Hershberger (Rat)	48669902	See Note 1	OWN	Member
890.1450	Female Pubertal (Rat)	48699301	See Note 1	OWN	Member
890.1500	Male Pubertal (Rat)	48699302	See Note 1	OWN	Member
890.1550	Steroidogenesis (Human Cell Line - H295R)	48669903	See Note 1	OWN	Member
890.1600	Uterotrophic (Rat)	48669904	See Note 1	OWN	Member

REL - Reliance on Syngenta waiver request.

Signature: 	Name and Title Patricia McFadden, Registration Manager	Date 18 August 2017
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Note 1 – Syngenta Crop Protection LLC on behalf of the Chlorothalonil EDSP Consortium

Note 2 – Sipcam Agro USA, Inc. is a member of the Chlorothalonil EDSP Consortium

Note 3 – GB Biosciences on behalf of the Chlorothalonil DCI Consortium (conventional uses)

Note 4 – Syngenta Crop Protection LLC on behalf of the Chlorothalonil DCI Consortium